

SEQUENCE LISTING

<110> Strathmann AG & Co.

<120> Virus-Vaccine

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<170> PatentIn Ver. 2.1

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690 695 700

Arg Val Arg Gln Gly Tyr Ser Pro Leu Ser Phe Gln Thr His Leu Pro
705 710 715 720

Ile Pro Arg Gly Pro Asp Arg Pro Glu Gly Ile Glu Glu Glu Gly Gly
725 730 735

Glu Arg Asp Arg Asp Arg Ser Ile Arg Leu Val Asn Gly Ser Leu Ala
740 745 750

Leu Ile Trp Asp Asp Leu Arg Ser Leu Cys Leu Phe Ser Tyr His Arg
755 760 765

Leu Arg Asp Leu Leu Leu Ile Val Thr Arg Ile Val Glu Leu Leu Gly
770 775 780

Arg Arg Gly Trp Glu Ala Leu Lys Tyr Trp Trp Asn Leu Leu Gln Tyr
785 790 795 800

Trp Ser Gln Glu Leu Lys Asn Ser Ala Val Asn Leu Leu Asn Ala Thr
805 810 815

Ala Ile Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Leu Gln
820 825 830

Ala Ala Tyr Arg Ala Ile Arg His Ile Pro Arg Arg Ile Arg Gln Gly
835 840 845

Leu Glu Arg Ile Leu Leu
850

<210> 3

<211> 107

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide for cloning

<400> 3

aagatgtagt aattagatct gccaatctca cagacaatgc taaaaccata atagtacagc 60
tgaacacatc gttagaaatt aattgtacaa gacccaacaa caataca 107

<210> 4

<211> 120

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide for cloning

<220>

<221> misc_feature

<222> (97)..(99)

<223> Sequence at this position: (GA)(AT)(GATC), ie.
base at position 97 can be G or A, base at
position 98 can be A or T, and base at
position 99 can be G, A, T or C.

<400> 4

ttttgctcta gaaatgttac aatgtgcttg tcttatgtct cctgttgtag cttctgttgc 60
atgaaatgct ctccctgggc cgatatggat actatgrwnt tttcttgcgt tgttggtggg 120

<210> 5
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the artificial sequence:
sequencing primer

<400> 5
ccatgtacaa atgtcag

17

<210> 6
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the artificial sequence:
sequencing primer

<400> 6
aaaactgtgc gttacaa

17

<210> 7
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the artificial sequence:
sequencing primer

<400> 7
gtaaaacgac ggccagt

17

<210> 8
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the artificial sequence:
sequencing primer

<400> 8
caggaaacag ctatgac

17

<210> 9
<211> 2148

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of the artificial sequence: synthetic DNA

<220>

<221> misc_feature

<222> (3)..(9)

<223> BstEII cleavage site

<220>

<221> misc_feature

<222> (2143)..(2148)

<223> BamHI cleavage site

<400> 9

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gtaccacacag accccaaccc acaagaagta gtattggtaa atgtgacaga aaatTTTaaac 180
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aaaaactgca gcttcaatat cagcacaaagc ataagagata aggtgcagaa agaatatgca 420
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ggtggagaga gagacagaga cagatccatt cgattagtga acggatcc 2148
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<210> 10

<211> 6229

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of the artificial sequence: synthetic DNA

<220>
<221> sig_peptide
<222> (1293)..(1295)
<223> env ATG

<220>
<221> misc_feature
<222> (1377)..(1379)
<223> env AGT, gp120 start

<220>
<221> misc_feature
<222> (1397)..(1403)
<223> BstEII cleavage site

<220>
<221> misc_feature
<222> (3537)..(3542)
<223> BamHI cleavage site

<220>
<221> misc_feature
<222> (3855)..(3857)
<223> env TAA, stop

<400> 10
ctgacgcgcc ctgtagcggc gcattaagcg cggcggggtgt ggtgggttacg cgcagcgtga 60
ccgctacact tgccagcgcc ctagcgcccg ctcccttcgc tttcttccct tcctttctcg 120
ccacgttcgc cggttttccc cgtcaagctc taaatcgggg gctcccttta gggttccgat 180
ttagtgcttt acggcacctc gacccccaaa aacttgatta gggatgatgg tcacgtagtg 240
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<210> 11
 <211> 860
 <212> DNA
 <213> Human immunodeficiency virus

 <220>
 <221> misc_feature
 <222> (1)..(860)
 <223> PI-932 original sequence V1-V2-V3-loop

<400> 11						
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gctgatttaa	attgcaataa	tactgattta	aattgcacta	aagctaattt	ggggaaaaat	240
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ataagacccc	acaacactgt	aacagacagg	atacatatag	ggccagggag	atcatttcat	780
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tggaataaca	ctttacaaga					860

<210> 12
 <211> 870
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of the artificial sequence: PI-932
gene cassette, comprising the cleavage sites for
restriction enzymes BspTl, PstI, BclI, EcoRI,
BglII, PvuII, XbaII, NheI

<400> 12

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caaagcccta agccatgtgt aaaactaacc cactctgtg ttactttaaa ttgcactgat 180
gctgatttaa attgcaataa tactgattta aattgcacta aagctaattt ggggaaaaat 240
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ttcaagggtca ccacaggcat aagggataag atgcaaaaag aatatgcact tttgaataaa 360
cttgatatag taccaataga taatgataag aataatacta actttatatt gataagttgt 420
aacacctcgg tgatcacaca ggcctgtcca aaggatcctt ttgagccaat tcccatacat 480
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